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Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend claims 1-3, 5, 6, 9-11, and 13-17 as follows:

1. (currently amended): A pseudodevice for communicating between a network-resident software application and a user device, the pseudodevice comprising:
 - a first port for communications between the network-resident software application and the pseudodevice;
 - a second port for communications between the pseudodevice and the user device;
 - a first interface function associated with the first port for receiving a message request from the network-resident software application and for sending a response to the network-resident software application; and
 - a second interface function associated with the second port for sending in response to the message request an instant message to the user device in a format adapted for communication with an instant messaging client resident on the user device, and receiving an HTTP request from a web browser located on the user device, providing a selected response to ~~a~~ the received HTTP request, and sending an HTTP response in a format adapted for communication with an HTTP client on the user device.
2. (currently amended): The pseudodevice of claim 1, wherein the message request from the network-resident software application further comprises:

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

query parameters to specify the type of query to send to the user device.

3. (currently amended): The pseudodevice of claim 2, wherein the query parameters further comprise[[s]]:

a query type;

query strings;

a target username; and

a source username supplied by the pseudodevice, wherein the instant message when received in the user device appears to come from an instant messaging user separate from the pseudodevice.

4. (original): The pseudodevice of claim 3, wherein the query type further comprises:

a type display for use in displaying strings to the user device;

a type choose for offering a menu of choices; and

a type prompt for requesting information to be entered.

5. (currently amended): The pseudodevice of claim 1 further comprising:

a session ID generator for assigning a unique session ID for a message request from the network-resident software application;

a request table for maintaining a unique session ID mapping to the software application that initiated the message request;

an instant messaging message formatter for formatting a message to conform to an instant messaging interface standard;

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

an instant messaging client/server for use in sending messages to another instant messaging user; and

an HTTP server for receiving HTTP requests, providing a selected response to a received HTTP request, and sending HTTP responses.

6. (currently amended): A method for communicating between a network-resident software application and a user device through a network-resident component, the method comprising:

receiving in the network-resident component a message request from the network-resident software application;

translating in the network-resident component the message request to a hyperlinked instant message to the user device in a format adapted for communication with an instant messaging client resident on the user device;

sending the hyperlinked instant message from the network-resident component to the user device;

receiving in the network-resident component an HTTP request from ~~the~~ a web browser located in the user device as a user response to a user action that was elicited by the hyperlinked instant message;

sending from the network-resident component to the user device a selected type of HTTP response dependent upon the type of HTTP request received; and

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

sending ~~a~~the user response from the network-resident component to the network-resident software application that initiated the message request for selected types of HTTP requests.

7. (original): The method of claim 6 wherein the message request from the network-resident software application is a display message request.

8. (original): The method of claim 6 wherein the message request from the network-resident software application is a choose message request.

9. (currently amended): The method of claim 6, wherein the message request from the network resident software application further comprises:

a query type;

query strings to be displayed;

a target user name parameter for the instant messaging name of the user device;

and

a source user name parameter supplied by the network-resident component to specify an arbitrary source.

10. (currently amended): The method of claim 6, wherein the hyperlinked instant message further comprises:

an embedded unique session identifier, unique message type, and unique message identifier for selected message requests that elicit a user response in a uniform resource locator (URL) associated with a hyperlinked text message that is sent to the user device, where the URL

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

is used by the user device to identify ~~a pseudodevice~~ the network-resident component for sending a response.

11. (currently amended): A method for requesting information from a user by communicating between a network-resident software application and a user device through a network-resident component, the method comprising:

receiving in the network-resident component a message request for information from a user from the network-resident software application;

translating in the network-resident component the message request to a hyperlinked instant message to the user device in a format adapted for communication with an instant messaging client resident on the user device;

sending the hyperlinked instant message from the network-resident component to the user device;

receiving in the network-resident component an a first HTTP request from the a web browser located in the user device as a response to a user action that was elicited by the hyperlinked instant message;

sending from the network-resident component to the user device a selected type of HTTP response including a web form for entry of the requested information, in response to the first HTTP request~~dependent upon the type of HTTP request received;~~

receiving in the network-resident component an a second HTTP request from the user device's web browser as a user response to a user action that was elicited by the selected

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

type of HTTP response, the user response including the web form filled out with the requested information; and

sending a the user response including the requested information from the network-resident component to the network-resident software application that initiated the message request for selected types of HTTP requests.

12. (original): The method of claim 11 wherein the message request from the network-resident software application is a prompt message request.

13. (currently amended): The method of claim 11, wherein the message request from the network resident software application further comprises:

a query type;

query strings to be displayed;

a target user name parameter for the instant messaging name of the user device;

and

a source user name parameter supplied by the network-resident component to specify an arbitrary source.

14. (currently amended): The method of claim 11, wherein the hyperlinked instant message further comprises:

an embedded unique session identifier, unique message type, and unique message identifier for selected message requests that elicit a user response in a uniform resource locator (URL) associated with a hyperlinked text message that is sent to the user device, where the URL

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

is used by the user device to identify ~~a pseudodevice~~ the network-resident component for sending a response.

15. (currently amended): A computer-readable medium whose contents cause a computer system to perform in a unified real-time manner interactions between at least one network-resident software application and at least one user device through a network-resident component, by performing the steps of:

responding to a selected message request received in the network-resident component from the network-resident software application;

translating in the network-resident component ~~at the~~ selected message request to an instant message in a selected instant message format adapted for communication with an instant messaging client resident on the user device;

sending the instant message from the network-resident component to the user device;

communicating and adapting the communications ~~with~~ between the network-resident component and an a web browser HTTP client resident on the user device for selected message requests; and

sending a user response from the network-resident component to the network-resident software application that initiated the message request for selected message requests.

16. (currently amended): The computer readable medium of claim 15, wherein the network-resident component ~~further~~ comprises:

a ~~pseudodevice~~ first software interface function, ~~wherein the pseudodevice~~

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

~~software function which~~ is used for responding to a selected message request from the network-resident software application, and sending a user response to the network-resident software application that initiated the message request for selected message requests; and

a second software interface function which is used for translating a selected message request to a selected instant message format adapted for communication with an instant messaging client resident on the user device, sending the instant message from the network-resident component to the user device, and communicating and adapting the communications with an HTTP client resident on the user device for selected message requests, and sending a user response to the network-resident software application that initiated the message request for selected message requests.

17. (currently amended): A computer-readable medium whose contents cause a computer system to perform in a unified real-time manner interactions between at least one network-resident software application and at least one user device, the computer system having a pseudodevice as a unified software interface function that provides an interface between a-the at least one network-resident software application and a-the at least one user device, by performing:

responding to a selected message request in the pseudodevice from the network-resident software application;

translating in the pseudodevice a selected message request to a selected instant message format adapted for communication with an instant messaging client resident on the user device;

Appl. No. 10/770,943
Amdt. dated December 3, 2007
Reply to Office Action of August 07, 2007

communicating and adapting the communications between a web browser's HTTP
client resident on the user device and the pseudodevice for selected message requests; and
sending a user response from the pseudodevice to the network-resident software
application that initiated the message request for selected message requests.